

Method of visualizing results of performance monitoring and analysis in a parallel computing systemPatent Number: ☐ US5903730

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Inventor(s): ASAI NOBORU (JP); MATSUMOTO TOHRU (JP); WATANABE KAZUO

Applicant(s): FUJITSU LTD (JP)

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TC 2800 MAIL ROOM**Abstract**

A method of visualizing the results of performance monitoring and analysis for a parallel computing system in which a plurality of processors execute a parallel processing program composed of a plurality of routines. First, information on the execution time of each routine is collected in a realtime manner while the program is concurrently executed by the plurality of processors. Second, a maximum, average, and minimum values of the execution time of each routine are calculated, based on the information collected for the plurality of processors. Third, the collected information is summarized as an execution profile and displayed in graphical form by using bar graphs, pie graphs, or radar charts. For each procedure or program loop, the present method clarifies the percentages of net user program execution, communication, synchronization, and other parallelization overheads, as well as indicating their deviations. This feature helps the user to understand the actual program behavior and to tune up the parallel processing program.

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